

Alcohol and Tobacco Tax and Trade Bureau, Treasury
§ 21.141

(d) *Specific gravity at 15.56 °/15.56 °C.* 0.869 to 0.873.

[T.D. ATF-133, 48 FR 24673, June 2, 1983. Re-designated by T.D. ATF-442, 66 FR 12854, Mar. 1, 2001]

§ 21.133 Vinegar.

(a) *Vinegar, 90-grain:*

Acidity (as acetic acid). 9.0 percent by weight, minimum.

(b) *Vinegar, 60-grain:*

Acidity (as acetic acid). 6.0 percent by weight, minimum.

[T.D. ATF-133, 48 FR 24673, June 2, 1983. Re-designated by T.D. ATF-442, 66 FR 12854, Mar. 1, 2001]

Subpart F—Uses of Specially Denatured Alcohol and Specially Denatured Rum
§ 21.141 List of products and processes using specially denatured alcohol and rum, and formulas authorized therefor.

This section lists, alphabetically by product or process, formulas of specially denatured alcohol authorized for use in those products or processes, and lists the code numbers assigned thereto. Specially denatured rum, as well as specially denatured alcohol, may be used in tobacco sprays and flavors, Code No. 460, under Formula No. 4.

USES OF SPECIALLY DENATURED ALCOHOL¹

| Product or process | Code No. | Formulas authorized |
|---|----------|---|
| Acetaldehyde | 551 | 1, 2-B, 29. |
| Acetic acid | 512 | 29, 35-A. |
| Adhesives and binders | 036 | 1, 3-A, 3-C, 12-A, 23-A, 30. |
| Aldehydes, miscellaneous | 552 | 1, 2-B, 29. |
| Alkaloids (processing) .. | 344 | 1, 2-B, 2-C, 3-A, 3-C, 12-A, 13-A, 17, 23-A, 30, 32, 35-A. |
| Animal feed supplements | 910 | 35-A. |
| Antibiotics (processing) .. | 343 | 1, 2-B, 3-A, 3-C, 12-A, 13-A, 23-A, 30, 32, 35-A. |
| Antifreeze, proprietary .. | 760 | 1. |
| Antiseptic, bathing solution (restricted) | 220 | 46. |
| Antiseptic solutions, U.S.P. or N.F. | 244 | 23-A, 37, 38-B, 38-F. |
| Bath preparations | 142 | 1, 3-A, 3-B, 3-C, 23-A, 30, 36, 38-B, 39-B, 39-C, 40, 40-A, 40-B, 40-C. |
| Bay rum | 112 | 23-A, 37, 38-B, 39, 39-B, 39-D, 40, 40-A, 40-B, 40-C. |
| Biocides, miscellaneous | 410 | 1, 3-A, 3-B, 3-C, 23-A, 23-H, 27-A, 27-B, 30, 37, 38-B, 39-B, 40, 40-A, 40-B, 40-C. |
| Blood and blood products (processing) | 345 | 1, 3-A, 3-C, 12-A, 13-A, 23-A, 30. |
| Brake fluids | 720 | 1, 3-A, 3-C. |
| Candy glazes | 015 | 13-A, 23-A, 35, 35-A, 45. |
| Cellulose coatings | 011 | 1, 3-A, 3-C, 23-A, 30. |
| Cellulose compounds (dehydration) | 311 | 1, 2-B, 3-A, 3-C, 32. |
| Cellulose intermediates | 034 | 1, 3-A, 3-C, 13-A, 19, 23-A, 32. |
| Chemicals (miscellaneous) | 579 | 1, 2-B, 2-C, 3-A, 3-C, 6-B, 12-A, 13-A, 17, 20, 29, 30, 32, 36. |
| Cleaning solutions | 450 | 1, 3-A, 3-C, 23-A, 23-H, 30, 36, 39-B, 40, 40-A, 40-B, 40-C. |
| Coatings, miscellaneous | 016 | 1, 3-A, 3-C, 23-A. |
| Collodions, industrial | 034 | 1, 3-A, 3-C, 13-A, 19, 23-A, 32. |
| Collodion, U.S.P. | 241 | 13-A, 19, 32. |
| Colognes | 122 | 38-B, 39, 39-A, 39-B, 39-C, 40, 40-A, 40-B, 40-C. |
| Crude drugs (processing) | 341 | 1, 2-B, 3-A, 3-C, 23-A, 30. |
| Cutting oils | 730 | 1, 3-A, 3-C. |
| Dehydration products, miscellaneous | 315 | 1, 2-B, 3-A, 3-C. |
| Dentifrices | 131 | 31-A, 37, 38-B, 38-C, 38-D. |
| Deodorants (body) | 114 | 23-A, 38-B, 39-B, 39-C, 40, 40-A, 40-B, 40-C. |
| Detergents, household | 450 | 1, 3-A, 3-C, 23-A, 23-H, 30, 36, 39-B, 40, 40-A, 40-B, 40-C. |
| Detergents, industrial ... | 440 | 1, 3-A, 3-C, 23-A, 30. |
| Detonators | 574 | 1, 6-B. |
| Disinfectants | 410 | 1, 3-A, 3-B, 3-C, 23-A, 23-H, 27-A, 27-B, 30, 37, 38-B, 39-B, 40, 40-A, 40-B, 40-C. |
| Drugs and medicinal chemicals | 575 | 1, 2-B, 2-C, 3-A, 3-C, 6-B, 12-A, 13-A, 17, 29, 30, 32. |
| Drugs, miscellaneous (processing) | 349 | 1, 2-B, 3-A, 3-C, 13-A, 23-A, 30, 35-A, 38-B. |
| Duplicating fluids | 485 | 1, 3-A, 3-C, 30. |
| Dyes and intermediates | 540 | 1, 2-B, 2-C, 3-A, 3-C, 12-A, 29, 36. |
| Dyes and intermediates (processing) | 351 | 1, 2-B, 3-A, 3-C, 12-A. |
| Dye solutions, miscellaneous | 482 | 1, 3-A, 3-C, 23-A, 30. |
| Embalming fluids, etc ... | 420 | 1, 3-A, 3-C, 22, 23-A. |
| Esters, ethyl (miscellaneous) | 523 | 1, 2-B, 2-C, 6-B, 12-A, 13-A, 29, 32, 35-A. |
| Ether, ethyl | 561 | 1, 2-B, 13-A, 29, 32. |
| Ethers, miscellaneous | 562 | 1, 2-B, 13-A, 29, 32. |
| Ethyl acetate | 521 | 1, 2-B, 29, 35-A. |
| Ethylamines | 530 | 1, 2-B, 2-C, 3-A, 3-C, 12-A, 29, 36. |
| Ethyl chloride | 522 | 1, 2-B, 29, 32. |
| Ethylene dibromide | 571 | 1, 2-B, 29, 32. |
| Ethylene gas | 572 | 1, 2-B, 29, 32. |
| Explosives | 033 | 1, 2-B, 3-A, 3-C. |

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**USES OF SPECIALLY DENATURED ALCOHOL¹—
Continued**

| Product or process | Code No. | Formulas authorized | Product or process | Code No. | Formulas authorized |
|---|----------|---|---|----------|---|
| External pharmaceuticals, not U.S.P. or N.F. | 210 | 23-A, 23-F, 23-H, 27, 27-A, 27-B, 33, 36, 37, 38-B, 38-F, 39-B, 40, 40-A, 40-B, 40-C. | Pectin (processing) | 331 | 1, 2-B, 3-A, 3-C, 13-A, 23-A, 30, 35-A. |
| External pharmaceuticals, miscellaneous, U.S.P. or N.F. | 249 | 23-A, 25, 25-A, 33, 38-B, 40-B. | Perfume materials (processing). | 352 | 1, 2-B, 3-A, 3-C, 12-A, 13-A, 30. |
| Fluid uses, miscellaneous. | 750 | 1, 3-A, 3-C, 23-A, 30. | Perfumes and perfume tinctures. | 121 | 38-B, 39, 39-B, 39-C, 40, 40-A, 40-B, 40-C. |
| Food products, miscellaneous (processing). | 332 | 1, 2-B, 3-A, 3-C, 13-A, 23-A, 30, 32, 35-A. | Petroleum products | 320 | 1, 2-B, 3-A, 3-C. |
| Fuel uses, miscellaneous. | 630 | 1, 3-A, 3-C, 28-A. | Photoengraving dyes and solutions. | 481 | 1, 3-A, 3-C, 13-A, 30, 32. |
| Fuels, airplane and supplementary. | 612 | 1, 3-A, 3-C, 28-A. | Photographic chemicals (processing). | 353 | 1, 2-B, 3-A, 3-C, 13-A, 30. |
| Fuels, automobile and supplementary. | 611 | 1, 3-A, 3-C, 28-A. | Photographic film and emulsions. | 031 | 1, 2-B, 3-A, 3-C, 13-A, 19, 30, 32. |
| Fuels, proprietary heating. | 620 | 1, 3-A, 3-C, 28-A. | Pill and tablet manufacture. | 349 | 1, 2-B, 3-A, 3-C, 13-A, 23-A, 30, 35-A, 38-B. |
| Fuels, rocket and jet | 613 | 1, 3-A, 3-C, 28-A. | Plastics, cellulose | 021 | 1, 2-B, 3-A, 3-C, 12-A, 13-A, 30. |
| Fungicides | 410 | 1, 3-A, 3-B, 3-C, 23-A, 23-H, 27-A, 27-B, 30, 37, 38-B, 39-B, 40, 40-A, 40-B, 40-C. | Plastics, non-cellulose (including resins). | 022 | 1, 2-B, 3-A, 3-C, 12-A, 13-A, 30. |
| Glandular products (processing). | 342 | 1, 2-B, 3-A, 3-C, 12-A, 13-A, 23-A, 30, 32, 35-A. | Polishes | 051 | 1, 3-A, 3-C, 30. |
| Hair and scalp preparations. | 111 | 3-B, 23-A, 23-F, 23-H, 37, 38-B, 39, 39-A, 39-B, 39-C, 39-D, 40, 40-A, 40-B, 40-C. | Preserving solutions | 430 | 1, 3-A, 3-C, 12-A, 13-A, 22, 23-A, 30, 32, 37, 38-B, 42, 44. |
| Hormones (processing) | 342 | 1, 2-B, 3-A, 3-C, 12-A, 13-A, 23-A, 30, 32, 35-A. | Product development and pilot plant (own use only). | 812 | All formulas. |
| Incense | 470 | 3-A, 3-C, 22, 37, 38-B, 39-B, 39-C, 40, 40-A, 40-B, 40-C. | Proprietary solvents | 041 | 1, 3-A. |
| Inks | 052 | 1, 3-A, 3-C, 13-A, 23-A, 30, 32, 33. | Refrigerating uses | 740 | 1, 3-A, 3-C, 23-A, 30. |
| Insecticides | 410 | 1, 3-A, 3-B, 3-C, 23-A, 23-H, 27-A, 27-B, 30, 37, 38-B, 39-B, 40, 40-A, 40-B, 40-C. | Resin coatings, natural. | 014 | 1, 23-A. |
| Iodine solutions (including U.S.P. and N.F. tinctures). | 230 | 25, 25-A. | Resin coatings, synthetic. | 012 | 1, 3-A, 3-C, 23-A, 30. |
| Laboratory reagents (for sale). | 811 | 3-A, 3-C, 30. | Resins, synthetic | 590 | 3-A, 3-C, 29, 30, 35-A. |
| Laboratory uses, general (own use only). | 810 | 3-A, 3-C, 30. | Room deodorants | 470 | 3-A, 3-C, 22, 37, 38-B, 39-B, 39-C, 40, 40-A, 40-B, 40-C. |
| Lacquer thinners | 042 | 1, 23-A. | Rosin (processing) | 354 | 1, 3-A, 3-C, 12-A. |
| Liniments, U.S.P. or N.F. | 243 | 27, 27-B, 38-B. | Rotogravure dyes and solutions. | 481 | 1, 3-A, 3-C, 13-A, 30, 32. |
| Lotions and creams (body, face, and hand). | 113 | 23-A, 23-H, 31-A, 37, 38-B, 39, 39-B, 39-C, 40, 40-A, 40-B, 40-C. | Rubber (latex) (processing). | 355 | 1, 3-A, 3-C. |
| Medicinal chemicals (processing). | 344 | 1, 2-B, 2-C, 3-A, 3-C, 12-A, 13-A, 17, 23-A, 30, 32, 35-A. | Rubber, synthetic | 580 | 29, 32. |
| Miscellaneous chemicals (processing). | 358 | 1, 2-B, 2-C, 3-A, 3-C, 12-A, 13-A, 17, 23-A, 30, 35-A. | Rubbing alcohol | 220 | 23-H. |
| Miscellaneous products (processing). | 359 | 1, 2-B, 2-C, 3-A, 3-C, 12-A, 13-A, 17, 23-A, 30, 35-A. | Scientific instruments ... | 710 | 1, 3-A, 3-C. |
| Mouth washes | 132 | 37, 38-B, 38-C, 38-D, 38-F. | Shampoos | 141 | 1, 3-A, 3-B, 3-C, 23-A, 27-B, 31-A, 36, 38-B, 39-A, 39-B, 40, 40-A, 40-B, 40-C. |
| Organic-silicone products. | 576 | 2-B, 3-A, 3-C, 30. | Shellac coatings | 013 | 1, 23-A. |
| | | | Soaps, industrial | 440 | 1, 3-A, 3-C, 23-A, 30. |
| | | | Soaps, toilet | 142 | 1, 3-A, 3-C, 23-A, 30, 36, 38-B, 39-B, 39-C, 40, 40-A, 40-B, 40-C. |
| | | | Sodium ethylate, anhydrous (restricted). | 524 | 2-B. |
| | | | Sodium hydrosulfite (dehydration). | 312 | 1, 2-B, 3-A, 3-C. |
| | | | Soldering flux | 035 | 1, 3-A, 3-C, 23-A, 30. |
| | | | Solutions, miscellaneous. | 485 | 1, 3-A, 3-C, 23-A, 30, 40-C. |
| | | | Solvents and thinners (other than proprietary solvents or special industrial solvents). | 042 | 1, 23-A, 30. |
| | | | Solvents, special (restricted sale). | 043 | 1, 3-A, 3-C. |
| | | | Stains (wood) | 053 | 1, 3-A, 3-C, 23-A, 30. |
| | | | Sterilizing solutions | 430 | 1, 3-A, 3-C, 12-A, 13-A, 22, 23-A, 30, 32, 37, 38-B, 42, 44. |

Alcohol and Tobacco Tax and Trade Bureau, Treasury

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**USES OF SPECIALLY DENATURED ALCOHOL¹—
Continued**

| Product or process | Code No. | Formulas authorized |
|--------------------------------------|----------|---|
| Theater sprays | 470 | 3-A, 3-C, 22, 37, 38-B, 39-B, 39-C, 40, 40-A, 40-B, 40-C. |
| Tobacco sprays and flavors. | 460 | 4. |
| Toilet waters | 122 | 38-B, 39, 39-A, 39-B, 39-C, 40, 40-A, 40-B, 40-C. |
| Transparent sheetings .. | 032 | 1, 2-B, 3-A, 3-C, 13-A, 23-A. |
| Unclassified uses ² | 900 | 1, 3-A, 3-C. |
| Vaccine (processing) | 343 | 1, 2-B, 3-A, 3-C, 12-A, 13-A, 23-A, 30, 32, 35-A. |
| Vinegar | 511 | 18, 29, 35-A. |
| Vitamins (processing) ... | 342 | 1, 2-B, 3-A, 3-C, 12-A, 13-A, 23-A, 30, 32, 35-A. |
| Xanthates | 573 | 1, 2-B, 29. |
| Yeast (processing) | 342 | 1, 2-B, 3-A, 3-C, 12-A, 13-A, 23-A, 30, 32, 35-A. |

¹ Other products or processes may be authorized under §21.31(c).

² Persons desiring other formulas for this use should indicate the fact in the space provided for this purpose on TTB Form 5150.19.

[T.D. ATF-133, 48 FR 24673, June 2, 1983, as amended by T.D. ATF-199, 50 FR 9183, Mar. 6, 1985; T.D. ATF-435, 66 FR 5475, Jan. 19, 2001; T.D. ATF-442, 66 FR 11854, Mar. 1, 2001]

**Subpart G—Denaturants
Authorized for Denatured Spirits**

**§21.151 List of denaturants authorized
for denatured spirits.**

Following is an alphabetical listing of denaturants authorized for use in denatured spirits:

**DENATURANTS AUTHORIZED FOR COMPLETELY
DENATURED ALCOHOL (C.D.A.), SPECIALLY
DENATURED ALCOHOL (S.D.A.), AND SPE-
CIALY DENATURED RUM (S.D.R.)**

| | | |
|---|---|--|
| Acetaldehyde | S.D.A. 29. | |
| Acetone, U.S.P | S.D.A. 23-A, 23-H. | |
| Acetaldehyde | C.D.A. 18. | |
| Almond oil, bitter, N.F.X | S.D.A. 38-B. | |
| Alpha Terpineol | S.D.A. 38. | |
| Ammonia, aqueous | S.D.A. 36. | |
| Ammonia solution, strong, N.F | S.D.A. 36. | |
| Anethole, N.F | S.D.A. 38-B. | |
| Anise oil, N.F | S.D.A. 38-B. | |
| Bay oil (myrcia oil), N.F.XI | S.D.A. 23-F, 38-B, 39-D. | |
| Benzaldehyde, N.F | S.D.A. 38-B. | |
| Benzene | S.D.A. 2-B, 2-C, 12-A. | |
| Bergamot oil, N.F.XI | S.D.A. 23-F, 38-B. | |
| Bone oil (Dipple's oil) | S.D.A. 17. | |
| Boric acid, N.F | S.D.A. 38-F. | |
| Brucine alkaloid | S.D.A. 40. | |
| Brucine sulfate, N.F.IX | S.D.A. 40. | |
| n-Butyl alcohol | S.D.A. 44. | |
| Denaturants authorized for completely denatured alcohol (C.D.A.), specially denatured alcohol (S.D.A.), and speci- ally denatured rum (S.D.R.)—Continued | | |
| tert-Butyl alcohol | S.D.A. 39, 39-A, 39-B, 40, 40-A, 40-B, 40-C. | |
| Camphor, U.S.P | S.D.A. 27, 27-A, 38-B. | |
| Caustic soda, liquid | S.D.A. 36. | |
| Cedar leaf oil, U.S.P.XIII | S.D.A. 38-B. | |
| Chloroform | S.D.A. 20. | |
| Chlorothymol, N.F.XII | S.D.A. 38-B, 38-F. | |
| Cinchonidine | S.D.A. 39-A. | |
| Cinchonidine sulfate, N.F.IX | S.D.A. 39-A. | |
| Cinnamic aldehyde | S.D.A. 38-B. (cinnamaldehyde), N.F.IX. | |
| Cinnamon oil, N.F | S.D.A. 38-B. | |
| Citronella oil, natural | S.D.A. 38-B. | |
| Clove oil, N.F | S.D.A. 27-A, 38-B. | |
| Coal tar, U.S.P | S.D.A. 38-B. | |
| Denatonium benzoate, N.F. | S.D.A. 1, 40-B. | |
| Diethyl phthalate | S.D.A. 39-B, 39-C. | |
| Ethyl acetate | S.D.A. 29, 35, 35-A. | |
| Ethyl ether | S.D.A. 13-A, 19, 32. | |
| Eucalyptol, N.F.XII | S.D.A. 37, 38-B. | |
| Eucalyptus oil, N.F | S.D.A. 38-B. | |
| Eugenol, U.S.P | S.D.A. 38-B. | |
| Formaldehyde solution, U.S.P. | S.D.A. 22, 38-C, 38-D. | |
| Gasoline | S.D.A. 18, 19; S.D.A. 28-A. | |
| Gasoline, unleaded | C.D.A. 18, 19, 20; S.D.A. 28-A. | |
| Gentian violet | S.D.A. 33. | |
| Gentian violet, U.S.P | S.D.A. 33. | |
| Glycerin (Glycerol), U.S.P | S.D.A. 31-A. | |
| Green soap, U.S.P | S.D.A. 27-B. | |
| Guaiacol, N.F.X | S.D.A. 38-B. | |
| Heptane | C.D.A. 18, 19; S.D.A. 2-B, 28-A. | |
| Hydrochloric acid, N.F | S.D.A. 38-F. | |
| Iodine, U.S.P | S.D.A. 25, 25-A. | |
| Isopropyl alcohol | S.D.A. 3-C. | |
| Kerosene | C.D.A. 18, 19, 20. | |
| Kerosene (deodorized) | C.D.A. 18, 19, 20. | |
| Lavender oil, N.F | S.D.A. 27-B, 38-B. | |
| Menthol, U.S.P | S.D.A. 37, 38-B, 38-C, 38-D, 38-F. | |
| Mercuric iodide, red, N.F.XI | S.D.A. 42. | |
| Methyl alcohol | S.D.A. 1, 3-A, 30. | |
| Methylene blue, U.S.P | S.D.A. 4; S.D.R. 4. | |
| Methyl isobutyl ketone | C.D.A. 18, 19; S.D.A. 1, 23-H. | |
| Methyl n-butyl ketone | C.D.A. 18, 19; S.D.A. 1. | |
| Methyl salicylate, N.F | S.D.A. 38-B, 46. | |
| Mustard oil, volatile (allyl isothiocyanate), U.S.P.XII. | S.D.A. 38-B. | |
| Nicotine solution | S.D.A. 4; S.D.R. 4. | |
| Nitropropane, mixed isomers of | C.D.A. 18, 19; S.D.A. 1. | |
| Peppermint oil, N.F | S.D.A. 38-B. | |
| Phenol, U.S.P | S.D.A. 38-B, 46. | |
| Phenyl mercuric benzoate | S.D.A. 42. | |
| Phenyl mercuric chloride, N.F.IX | S.D.A. 42. | |
| Phenyl mercuric nitrate, N.F | S.D.A. 42. | |
| Phenyl salicylate (salol), N.F.XI | S.D.A. 38-B. | |
| Pine needle oil, dwarf, N.F. | S.D.A. 38-B. | |
| Pine oil, N.F. | S.D.A. 38-B. | |
| Pine tar, U.S.P. | S.D.A. 3-B. | |
| Polysorbate 80, N.F. | S.D.A. 38-F. | |
| Potassium iodide, U.S.P. | S.D.A. 25, 25-A, 42. | |
| Pyridine bases | S.D.A. 6-B. | |
| Pyronate | C.D.A. 18. | |
| Quassia, fluid extract, N.F.VII | S.D.A. 39. | |
| Quassin | S.D.A. 40. | |
| Quinine, N.F.X | S.D.A. 39-A. | |
| Quinine bisulfate, N.F.XI | S.D.A. 39-A, 39-D. | |